

CLAIMS:

1. An electronic signal processing apparatus with a signal switch, the circuit comprising
- a switch input, a switch output and an internal node;
 - a first and a second transistor of normally-on type, having main current
 - 5 channels coupled between the internal node and the switching input and output, respectively;
 - a signal coupling between the internal node and a reference terminal of the switch input and output, the signal coupling comprising a diode;
 - a switch control circuit with a control output, DC-coupled to the main current
 - 10 main current channels, the diode being DC-coupled to the internal node so that a DC potential at a terminal of the diode, which controls on/off switching of the diode, is determined by a potential of the internal node in opposition to on/off switching of the channels.
- 15 2. An electronic signal processing apparatus as claimed in claim 1, the diode being part of a DC current path from the control output to the internal node, so that the diode is forward-biased when a control voltage that makes the main current channels non-conductive is applied from the control output to the main current channels via the diode.
- 20 3. An electronic signal switch, the switch comprising
- a switch input, a switch output and an internal node;
 - a first and a second transistor of normally-on type, having main current
 - channels coupled between the internal node and the switching input and output, respectively;
 - a signal coupling between the internal node and a reference terminal of the
 - 25 switch input and output, the signal coupling comprising a diode;
 - a control input, DC-coupled to the main current channel of the first and the second transistor via the internal node to control conduction of the main current channels, the diode being DC-coupled to the internal node so that a DC potential at a terminal of the diode,

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which controls on/off switching of the diode, is determined by a potential of the internal node in opposition to on/off switching of the channels.

4. An electronic signal switch as claimed in claim 1, wherein the diode is part of
- 5 a DC current path from the control input to the internal node, so that the diode is forward-biased when a control voltage that makes the main current channels non-conductive is applied from the control output to the main current channels via the diode.